

PROJECT SUMMARY
HOPI ARSENIC MITIGATION PROJECT
AND POLACCA WEST TANK REPLACEMENT EPA SDWTS 2015
HOPI INDIAN RESERVATION
NAVAJO AND COCONINO COUNTIES, ARIZONA

PROJECT NO. PH 15-U76
PUBLIC LAW 86-121

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
PHOENIX AREA OFFICE

JUNE 2015

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INTRODUCTION

The Hopi Tribe has been approved for an Environmental Protection Agency (EPA) Safe Drinking Water Tribal Set-Aside grant to improve water facilities in the Village of Polacca and has requested Indian Health Service (IHS) assistance to make the proposed improvements in Polacca, Hopi Indian Reservation.

It is proposed in this project to install piping to the west Polacca tank site which will serve as a water transmission main, thereby allowing direct connection to the tank as opposed to the tank "floating" on the distribution system, in either a regional system or treatment system scenario per the Preliminary Engineering Report dated August 2014. This project will also replace the deteriorating 200,000 gallon Polacca West Tank with a 250,000 gallon tank. The EPA, through a SDWTS grant, is contributing all project funding.

EXISTING SANITATION FACILITIES

A. Water Supply: Polacca (First Mesa Consolidated Villages, FMCV) - The water system has three pressure zones. These zones contain two functioning wells, which are identified as Wells #5 and #8. These wells each have capacities of 100 GPM. Wells #1, 2, 3 and 4 have been abandoned. Wells #6 and 7 are currently not in use. Zone 1 has a 500,000-gallon tank; zone 2 has one 200,000-gallon tank; and zone 3 has an 8,500-gallon gravity tank with a pressure booster system. Approximately 450 homes are served by this system. Project PH 04-S63 was funded to address arsenic mitigation for the Polacca Public Water System.

B. Wastewater Disposal: Polacca (First Mesa Consolidated Villages, FMCV) - The FMCV's wastewater disposal system includes a six cell lagoon treatment system totaling 9.9 acres, with 14.8 acres of wastewater disposal area, making the total area of the wastewater treatment facility 24.7 acres. The facilities serve approximately 450 homes and 10 businesses.

C. Solid Waste Disposal: The Hopi Tribe, in conjunction with the IHS and a HUD Community Development Block Grant (CDBG), has developed a solid waste disposal program for the entire Reservation. A RCRA compliant landfill has been designed and constructed, and is now in operation on the Reservation.

RECOMMENDED FACILITIES

A. Water: The proposed facilities include 2,450 feet of 8-inch water main, altitude valve and vault, tank yard piping, geotechnical foundation analysis, water sampling building, outlet meter vault, a 250,000 gallon water storage tank, cathodic protection with power line extension, chain link fencing, and demolition of the existing 200,000 gallon water storage tank.

B. Sewer: No wastewater disposal facilities are recommended under this Project. Projects are underway or are being planned to improve sewer facilities on the Reservation.

C. Solid Waste: No solid waste facilities are recommended under this Project. Existing facilities are adequate.

ENVIRONMENTAL CONSIDERATIONS

IHS conducted an environmental review of the scope of work under this project in accordance with IHS environmental review policies. The review indicates that an environmental assessment is required for the greater regional project. The environmental assessment funded under IHS project PH 11-E55 will be completed prior to the commencement of construction.

OPERATION AND MAINTENANCE (O&M)

The proposed facilities constructed under this project will be operated and maintained by a Tribally endorsed management entity tentatively titled the Hopi Public Utility Authority as defined in the "Hopi Water System Strategic Plan". Until such time as a Tribal entity takes over operation and/or maintenance of facilities installed, the facilities installed will be owned, operated, and maintained by First Mesa Consolidated Villages, which owns and operates the existing facilities in Polacca.

COST ESTIMATE

The estimated cost of the project, \$700,000.00, is being contributed by the EPA through a SDWTS grant. Project construction will be completed by Tribal procurement and force account.

Item	Description	Quantity	Units	Units Cost	Total
1	8" Water Main, 235 PSI rated	2,450	LF	\$ 37.75	\$ 92,487.50
2	Altitude Valve and Vault	1	LS	\$ 30,000.00	\$ 30,000.00
3	West Tank Yard Piping	1	LS	\$ 20,000.00	\$ 20,000.00
4	Geotechnical Evaluation	1	LS	\$ 8,500.00	\$ 8,500.00
5	Water Sampling Building	1	LS	\$ 12,000.00	\$ 12,000.00
6	Outlet Meter Vault	1	LS	\$ 20,000.00	\$ 20,000.00
7	250,000 Gallon Water Storage Tank	250,000	GAL	\$ 1.25	\$ 312,500.00
8	Cathodic Protection	1	LS	\$ 10,000.00	\$ 10,000.00
9	Power Line Extension	1	LS	\$ 18,000.00	\$ 18,000.00
10	Chain Link Fence	1	LS	\$ 11,000.00	\$ 11,000.00
11	Demolish Existing 200,000 Storage Tank and Abandon Site	1	LS	\$ 31,000.00	\$ 31,000.00
Construction Total:					\$ 565,487.50

Planning & Design Total (Schedule A)		\$ -	
Construction Total (Schedule B)		\$ 565,487.50	
O&M Support Total (Schedule C)		\$ -	
Contingency (Schedules A, B, & C)		\$ 28,274.38	5.00%
Subtotal		\$ 593,761.88	
TERO	0.5%	\$ 2,968.81	
Tribal Procurement 1=YES, 0=NO	1		
Tribal Administrative Support Fee		\$ 14,125.24	\$8250+2%over\$200,000
Subtotal Tribal Fees		\$ 17,094.05	
PROFESSIONAL FEES:			
IHS Engineering Program Support (EPS)		\$ 29,688.09	5.00
Subtotal Professional Fees		\$ 29,688.09	
IHS Project Technical Support Fee (PTS)		\$ 59,376.19	10.00%
Subtotal PTS		\$ 59,376.19	
Total		\$ 699,920.20	
Rounded		\$ 700,000.00	

SUMMARY

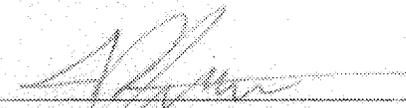
Maximum Contribution to the Tribe	\$610,855.92
Project Technical Support	59,376.19
Engineering Program Support	29,688.09
Total	\$699,920.20
Total Rounded	\$700,000.00

PROJECT SUMMARY
POLACCA EPA SDWTS
HOPI INDIAN RESERVATION
NAVAJO AND COCONINO COUNTIES, ARIZONA

PROJECT NO. PH 15-U76
PUBLIC LAW 96-121

PREPARED BY:

6/29/2015
Date



Jesse DeCoteau
Project Engineer

REVIEWED BY:

6/29/2015
Date



Robert Lorenz, P.E.
District Engineer

APPROVED BY:

6/29/15
Date



Eric Matson, P.E., Acting Director
Division of Sanitation Facilities
Construction

ENVIRONMENTAL INFORMATION AND DOCUMENTATION

Tribe: Hopi	Reservation: Hopi Indian
Project, Program, Grant Description & Location:	PH 15-U76, Polacca Water System Improvements, Public Law 86-121, EPA-SDWTS Funds, Hopi Indian Reservation, Navajo and Coconino Counties, Arizona

Action includes purchasing, construction, alteration, renovation, or leasing activities, new and continuing activities, including projects and programs entirely or partly financed, assisted, conducted, regulated, or approved by the Indian Health Service.

Note: A "Yes" or "No" response is required for every question. Answer each item completely with adequate supporting information to justify your response. **Depending upon the context and intensity, any consideration listed below can result in an Environmental Assessment.**

Consideration	Will the proposed action/activity affect the Consideration?
1. Will the proposed action result in a known violation or continuance of a violation of applicable (Federal, Tribal, State or local) laws or requirements for protection of environment or public health and safety?	No. All applicable Federal or Tribal laws will be complied with on this project as per project summary. The project will not violate any requirements imposed for protection of environment or public health and safety. Professional Experience -- Jesse DeCoteau, Field Engineer
2. Will the proposed action result in a conflict with existing or proposed Federal, Tribal, state, and local land use plans?	No. The proposed project will comply with existing land use plans. Professional Experience -- Jesse DeCoteau, Field Engineer
3. Is there a controversy with respect to environmental effects of the proposed action based on reasonable and substantial issues?	No. There is no known controversy with respect to the environmental effects of the proposed action. Professional Contacts with Tribal officials
4. Is the proposed action significantly greater in scope than normal for the area or does it have significant unusual characteristics?	No. The scope of this project is normal for the community and the office managing the project.
5. Does the proposed action establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?	No. The project is typical and presents nothing unusual or new in its technology. No precedent in regards to future actions is stated or implied by this project. Professional Experience -- Jesse DeCoteau, Field Engineer
6. Does the proposed action have significant adverse direct or indirect effects on park land, other public lands, or areas of recognized scenic or recreational value? (For example, consider how your activity will affect the view?)	No. The proposed action will not result in any permanent changes to the scenic integrity of the area. Upon completion of construction the replacement tank will be of comparable size of the existing (i.e. to be demolished) tank. Professional Experience -- Jesse DeCoteau, Field Engineer

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Consideration	Will the proposed action/activity affect the Consideration?
	Provide supporting information for your responses and explain any mitigations to be implemented.
7. Does the proposed action include construction of a new municipal solid waste landfill at a new solid waste disposal site?	No. The proposed action does not include construction of a new municipal solid waste landfill at a new solid waste disposal site.
8. Will the proposed action create a need for additional capacity at solid waste disposal facilities?	No. The proposed action is unlikely to create a need for additional capacity at solid waste disposal facilities. Professional Experience – Jesse DeCoteau, Field Engineer
9. Does the proposed action include construction of a new wastewater treatment facility that will discharge treated sewage effluent to the waters of the U.S.?	No. The proposed action does not include construction of a new wastewater treatment facility.
10. Will the proposed action create a need for additional capacity at wastewater treatment facilities?	No. The proposed action will not create a need for additional capacity at wastewater treatment facilities. Professional Experience – Jesse DeCoteau, Field Engineer
11. Will the proposed action create a need for additional capacity in the drinking water supply?	No. The proposed action will not create a need for additional capacity in the drinking water supply. Professional Experience – Jesse DeCoteau, Field Engineer
12. Are there other considerations about the proposed action that could adversely affect the environment and/or public health and safety?	No. The proposed action will ultimately benefit public/environmental health and safety. Professional Experience – Jesse DeCoteau, Field Engineer
13. Will the proposed action create a need for additional capacity in health care facilities and for health care services?	No. The proposed action will not create a need for additional capacity in health care facilities or services.

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Consideration	Will the proposed action/activity affect the Consideration?
14. Will the proposed action create a need for additional energy supply or generation?	Provide supporting information for your responses and explain any mitigations to be implemented. No. The proposed action will not require any additional energy supply or generation. Professional Experience – Jesse DeCoteau, Field Engineer
15. Will the proposed action create a need for additional capacity in educational facilities?	No. The proposed action will not create a need for additional capacity in educational facilities.
16. Will the proposed action create a need for additional capacity in transportation systems?	No. The proposed action will not create a need for additional capacity in transportation systems.
17. Historic Preservation: a. Does the proposed action involve the purchase, construction, alteration, renovation, or lease of real property or portion of real property that is more than 50 years old?	No. The proposed action will not include purchase, construction, alteration, renovation, or lease of real property or portion of real property that is more than 50 years old
b. Will the proposed action adversely affect properties listed, or eligible for listing, on the National Register of Historic Places? [Buildings, archaeological sites, National Historic Landmarks, objects of significance to a Tribe including graves, funerary objects, and traditional cultural properties. For assistance, consult with the State Historic Preservation Officer (SHPO) or the Tribal Historic Preservation Officer (THPO)]	No. The water main routing was recently archaeologically surveyed and determined not to be historically significant. The proposed water tank location is immediately adjacent to the existing tank and is unlikely to contain any areas of cultural significance. Should any cultural resources be discovered during site construction activities, the IHS will stop construction immediately and consult with the Tribal Historic Preservation Officer (i.e. Hopi Tribal Cultural Preservation Office and FMCV Officials) in accordance with 36 CFR § 800.13 for express written mitigation plans prior to continuing with the proposed action.

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Consideration	Will the proposed action/activity affect the Consideration?
18. <u>Endangered Species Act</u> : Is the proposed action likely to adversely affect a plant or animal species listed on the Federal or applicable state list of endangered or threatened species or a specific critical habitat of an endangered or threatened species? (Consult with Fish & Wildlife Service or NOAA Fisheries Service. Discovering an endangered or threatened species in the project area will stop the project, and the <u>Endangered Species Act</u> has significant fines and penalties for violations.)	No. Biological evaluation for proposed water system improvements will be conducted and surveys will be requested if necessary.
19. Will the proposed action require major sedimentation and erosion control measures? (Consider earth disturbing activities including construction or expansion of a parking lot.)	No. The proposed action will not require major sedimentation and erosion control measures.
20. Will the proposed action violate a storm water permit or a wastewater discharge permit either for construction or on-going operations? (Earth disturbing activities may require a Notice of Intent (NOI) to be covered under a storm water general permit or individual permit from the EPA or other agency and a storm water control plan, including some parking lot construction activities. A discharge of wastewater to the environment may require a permit from Tribal, local or state authorities, or EPA.)	No. Construction activity will not violate any storm water permit and will not involve any wastewater discharges or facilities. PRINTED/RESOURCE REVIEW http://cfpub.epa.gov/npdes/stormwater/csp.cfm
21. <u>Safe Drinking Water Act</u> : Will the proposed action impact an EPA designated sole source aquifer? (Designation of sole source aquifer puts restrictions and conditions on Federal expenditures, projects, and grants.)	No. The proposed action will not impact any EPA designated sole source aquifers. Please refer to the designation map at http://epa.gov/region9/water/groundwater/ssa.html which provides a map showing all sole source aquifers located in EPA Region 9.

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Consideration	Will the proposed action/activity affect the Consideration?
22. Wetlands and Water Resources (lakes, rivers, ponds, streams, etc.): Will the proposed action violate a Section 404 (Clean Water Act) permit for actions in a wetland and/or Section 10 (Rivers and Harbors Act) permit for actions in a stream or river? (Activities in or near a wetland or river may require a permit from the U.S. Army Corps of Engineers or U.S. Coast Guard. Includes: construction in or near any wet or dry waterway, stream crossings, intake structures, outfalls, etc.)	Provide supporting information for your responses and explain any mitigations to be implemented. No. The proposed action will not affect wetlands and water resources, except in compliance with the applicable permit; e.g., Section 404 (Clean Water Act) and Section 10 (Rivers and Harbors Act) permits. Professional Experience – Jesse DeCoteau, Field Engineer
23. Floodplains: a. Is the proposed action located in either a 100-year or, for critical actions, a 500-year floodplain? (If Flood Insurance Rate Maps do not exist for the project site, a floodplain survey or consultation may be required. Also may need to consider if the facility will require flood insurance).	No. FEMA Flood Plain Maps are not available for the Hopi Indian Reservation. The project is outside of the floodplain of the Little Colorado River and its tributaries. PRINTED/RESOURCE REVIEW: FEMA Flood Maps
b. Will the proposed action adversely impact flood flows in a floodplain or support development in a floodplain?	No. Project will not be located in a floodplain. The water tank siting is located at a topographically high point relative to the surrounding area in order to achieve desirable water pressures in the distribution system. Professional Experience – Jesse DeCoteau, Field Engineer
24. Existing site: Would the proposed action, involving the purchase, construction or lease of new facilities (including portable facilities and trailers), substantially increase the capacity of an existing health care facility?	No. The proposed action will not increase the capacity of an existing health care facility.
25. New site: Does the proposed action involve purchase, construction, or lease of new facilities (including portable facilities and trailers) where such action is for buildings equal to or more than 12,000 square feet (1080 square meters) of useable space when more than 5 acres (2 hectares) of surface land area are involved at a new site?	No. The proposed action does not involve the purchase, construction, or lease of new facilities in excess of 12,000 square feet.

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Consideration	Will the proposed action/activity affect the Consideration?
26. New site: Does the proposed action involve purchase, construction, or lease of health care facilities (other than buildings) for projects equal to or more than 5 acres (2 hectares) of surface land area at a new site?	Provide supporting information for your responses and explain any mitigations to be implemented. No. The proposed action will not involve the purchase, construction, or lease of health care facilities.
27. Does the proposed action involve the sale or transfer of real property, on which any hazardous substance was stored for one year or more, known to have been released, or disposed of? (Provide relevant documentation for any hazardous substance releases. See 40 CFR 373.2(b), 302.4, and 261.30 for reportable quantities.)	No. The proposed action will not involve the sale or transfer of real property.
28. Does the proposed action involve the sale or transfer of real property, on which underground or above ground storage tanks are located?	No. The proposed action will not involve the sale or transfer of real property.
29. Will the proposed action violate Tribal, local, state, or Federal law on the use and storage of hazardous substances or the transportation, storage, and disposal of hazardous wastes or medical wastes? (Activities that may generate reportable quantities include air conditioning repair and service, pesticide application, motor pools, automobile repair, welding, landscaping, agricultural activities, print shops, hospitals, clinics, medical centers, etc. Repair, renovation, or demolition activities can generate waste that has asbestos-containing materials, asbestos, lead-based paint, PCBs, CFCs, etc.)	No. The proposed action does not violate Tribal, local, state, or federal law on the use and storage of hazardous substances or the transportation, storage, and disposal of hazardous wastes or medical wastes. All applicable laws and requirements will be complied with on this project. Professional Experience — Jesse DeCoteau, Field Engineer
30. Will the proposed action adversely affect community air pollution for a long period of time? (Consider if your activity must conform to an applicable air quality implementation plan.)	No. The proposed action will have temporary minor impacts on air quality due to equipment emissions and fugitive dust that will not exceed the duration of construction. Professional Experience — Jesse DeCoteau, Field Engineer

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Consideration	Will the proposed action/activity affect the Consideration?
31. If the proposed action is implemented, will it have a disproportionately high and adverse human health or environmental impact on the Tribe, low-income populations, or minority populations?	Provide supporting information for your responses and explain any mitigations to be implemented. <u>No.</u> The proposed action does not create any hazards nor expose anyone to adverse environmental conditions. Professional Experience – Jesse DeCoteau, Field Engineer
32. Will the proposed action adversely affect community noise levels?	<u>No.</u> No long term noise levels will result from the completed project and construction noise will be restricted to times when there will be no adverse impact to community life or ceremonies. Professional Experience – Jesse DeCoteau, Field Engineer
33. Wilderness Act: Will the proposed action adversely impact a Wilderness Area? (Wilderness Areas are specifically designated areas of land.)	<u>No.</u> There are no designated Wilderness Areas on the Hopi Reservation as per Wilderness Act (16 USC 1131-1136)
34. Farmland Protection Policy Act: Will the proposed action convert significant agricultural lands to non-agricultural uses and exceed 160-point score on the farmland impact rating?	<u>No.</u> No significant agricultural lands will be crossed. Professional Experience – Jesse DeCoteau, Field Engineer
35. Coastal Zone Management Act: Will the proposed action directly affect a Coastal Zone in a manner inconsistent with the State Coastal Zone Management Plan? (All Federal programs or projects in the coastal zone must comply with the consistency provisions of the Act. Each coastal state should have a state office to manage its coastal zone development and use.)	<u>No.</u> There are no Coastal Zones on the Hopi Reservation per the Coastal Zone Management Act (16 U.S.C. § 1451-1465.)

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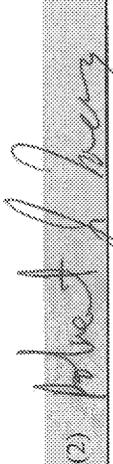
Consideration	Will the proposed action/activity affect the Consideration?
36. <u>Wild and Scenic Rivers Act</u> : Will the proposed action adversely affect a wild, scenic, or recreational river area or create conditions inconsistent with the character of the river? (A consideration for activities that are in or near any wild and scenic waterway including construction of stream/river crossings, intake structures, outfalls, etc.)	Provide supporting information for your responses and explain any mitigations to be implemented. <u>No.</u> The proposed action will not affect a wild, scenic, or recreational river area. To date, Congress has not designated any rivers on the Hopi Reservation under this category. (WSRA; 16 USC 1271-1287). Professional Experience -- Jesse DeCoteau, Field Engineer

Based on the available record, the IHS has made the following determination on the proposed activity/action/undertaking. The record was examined to identify potential extraordinary or exceptional circumstances which would require further environmental review. (State if an Environmental Impact Statement or Environmental Assessment is needed, or which Categorical Exclusion applies to this activity/action/undertaking).

The project is categorically excluded, Federal Register, Vol. 58, No. 3, January 6, 1993, Exclusion J, "Construction of Sanitation Facilities." There are no extraordinary or exceptional circumstances.

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I certify that to the best of my knowledge and ability the information presented herein is true and correct (enter appropriate information in the shaded blanks):

(1)	Signature	Project Engineer	Date
			8/4/2015
	Signature (grantee or responsible, knowledgeable person who completed this document)	Title or Position (e.g., as appropriate, Tribal chair, utility director, diabetes coordinator, project/facility engineer, etc., or Federal official or officer, etc.)	
(2)		District Engineer	8/19/2015
	Signature Service Unit Director/District Engineer	Title or Position (Service Unit Director, District Engineer)	
(3)		DSFC Director	8/27/15
	Signature IHS Area Program Coordinator/Manager	Title or Position (e.g., as appropriate, IHS diabetes coordinator, facility manager/director, DSFC Director, etc.)	
(4)		AREA NEPA COORDINATOR	9/3/15
	Signature Area NEPA Coordinator		
(5)		ASSOCIATE DIRECTOR, AREA OEHE	9/3/15
	Signature, Associate Director, Area OEHE		
(6)		DIRECTOR, ENGINEERING SERVICES	
	Signature, Director, ES (as appropriate)		

*Signatories may vary at the IHS Area. At minimum, signatures (1) through (4) are required, and signature (5) is required for all non-OEHE actions or activities